Task :

* Analyze the effects of different types of electrical devices on power consumption
* Study how power consumption changes over time and by location
* Construct a predictive model to forecast future power consumption

Answers :

To accomplish the tasks you've outlined, we'll follow these steps:

1. **Analyze the effects of different types of electrical devices on power consumption**:

* We'll calculate summary statistics and visualize the power consumption for each type of electrical device (e.g., kitchen, laundry room, water heater/air conditioner).

1. **Study how power consumption changes over time and by location**:

* We'll analyze trends in power consumption over time, possibly by aggregating data over different time periods (e.g., daily, monthly).
* location analysis can involve exploring variations in power consumption across different households or regions if that data is available.